

**Product Name:** JHW 007 hydrochloride

**Catalog No.:** 4351

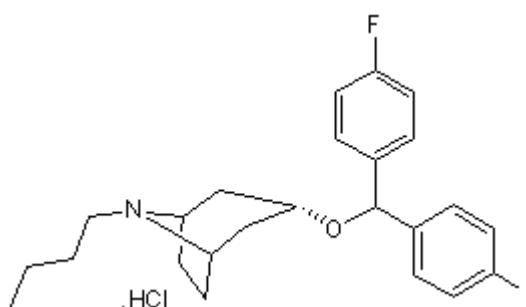
**Batch No.:** 1

CAS Number: 202645-74-7

IUPAC Name: (3-endo)-3-[Bis(4-fluorophenyl)methoxy]-8-butyl-8-azabicyclo[3.2.1]octane hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>29</sub>F<sub>2</sub>NO.HCl  
**Batch Molecular Weight:** 421.95  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.7 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.05])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.32	7.17	3.32
Found	68.46	7.22	3.33

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**Description:**

Dopamine uptake inhibitor; displays high affinity for the dopamine transporter (DAT) ( $K_i = 25$  nM compared to 1330 and 1730 for NET and SERT respectively). Suppresses the effects of cocaine administration in a dose-dependent manner.

**Physical and Chemical Properties:**

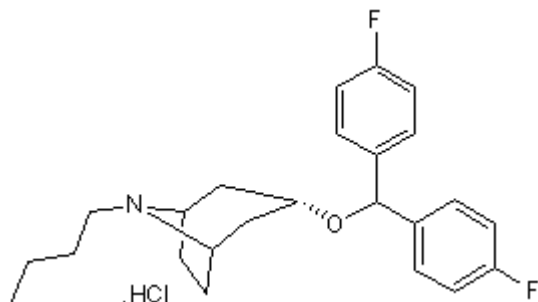
Batch Molecular Formula:  $C_{24}H_{29}F_2NO.HCl$

Batch Molecular Weight: 421.95

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Kopajtic et al** (2010) Dopamine transporter-dependent and -independent striatal binding of the benztropine analog JHW 007, a cocaine antagonist with low abuse liability. *J.Pharmacol.Exp.Ther.* **335** 703. PMID: 20854444.

**Velaquez-Sanchez et al** (2010) The high affinity dopamine uptake inhibitor, JHW 007, blocks cocaine-induced reward, locomotor stimulation and sensitization. *Eur.Neuropsychopharmacol.* **20** 501. PMID: 20413276.

**Kristensen et al** (2011) SLC6 neurotransmitter transporters: structure, function, and regulation. *Pharm.Rev.* **63** (3) 585.

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